



CD90 Antibody [5E10] (PE)

CATALOG NUMBER: 76-068

Specifications

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| SPECIES REACTIVITY: | Human |
| TESTED APPLICATIONS: | FACS |
| USER NOTE: | Optimal dilutions for each application to be determined by the researcher. |
| SPECIFICITY: | The 5E10 monoclonal antibody specifically reacts with human CD90, also known as thymus cell antigen-1 (Thy-1). |
| HOST SPECIES: | Mouse |

Properties

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| PURIFICATION: | The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product. |
| PHYSICAL STATE: | liquid |
| BUFFER: | Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2. |
| CONCENTRATION: | 5 uL (1.0 ug) / test |
| STORAGE CONDITIONS: | The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. |
| CLONALITY: | Monoclonal |
| ISOTYPE: | Mouse IgG1, kappa |
| CONJUGATE: | PE |

Additional Info

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| ALTERNATE NAMES: | CD90, THY1 |
| OFFICIAL SYMBOL: | THY1 |
| GENE ID: | 7070 |

Background

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| BACKGROUND: | The 5E10 monoclonal antibody specifically reacts with human CD90, also known as thymus cell antigen-1 (Thy-1). CD90 is a 25-37 kDA GPI-anchored protein is the smallest member of the Ig superfamily. CD90 is expressed on thymocytes, neurons, mesenchymal stem cells, hematopoietic stem cells, NK cells, and follicular dendritic cells and plays a role in inflammation, metastasis, apoptosis, and nerve regeneration. The 5E10 antibody can be used for the enriching high proliferative potential colony-forming cells (HIPP-CFC). |
| REFERENCES: | <p>1) Craig, W., Kay, R., Cutler, R. L., Lansdorp, P. M. (1993). Expression of Thy-1 on human hematopoietic progenitor cells. The Journal of experimental medicine, 177(5), 1331-1342.</p> <p>2) Trickett, A. E., Ford, D. J., Lam-Po-Tang, P. R., Vowels, M. R. (1991). Immunomagnetic bone marrow purging of common acute lymphoblastic leukemia cells: suitability of BioMag particles. Bone marrow transplantation, 7(3), 199-203.</p> <p>3) Schlossman, S. F. (1995). Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.</p> |

